

Serial No. 09/986,815
Attorney Docket No. 75250-004

Amendments to the claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 21 (currently amended): A method for making a one component heat curable epoxy resin system, comprising the step of mixing together components (A), (B), (C), and (E)

(A) an epoxy resin or compound containing more than one epoxy group;

(B) an amine solidifying system present in insufficient quantities to cause gelation after the amino hydrogen atoms are consumed by epoxy groups, under the reaction conditions chosen for (A) and (B);

(C) a late hardener system for (A) and the reaction product of (A) and (B), wherein (C) is different from (B) and remains substantially unreacted under the conditions of reaction for (A) and (B); and

(E) an expanding agent that remains substantially unreacted under the conditions of reaction for (A) and (B);

wherein the reaction product of (A) and (B) has melting point stability of at least six months at normal workshop temperatures

wherein (A) and (B) react to completion at room temperature in the presence of (C) and (E); and

wherein the reaction between (A) and (B) does not cause (C) or (E) to substantially react.

Claim 22 (previously presented): A method according to claim 21, wherein the mixing of the composition is carried out batchwise or continuously.

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Claim 23 (previously presented): A method according to claim 21, wherein the mixed composition and the shape and size of container ensure that the excess heat generated does not increase the temperature of the composition to a point to cause (C) or (E) to substantially react.

Claim 24 (previously presented): A method according to claim 21, wherein the mixing step is carried out in the resin system's final container.

Claim 25 (currently amended): A method according to claim 21, wherein the partially solidified mixture is heated to ~~speed~~ completion of the solidification reaction of (A) and (B), provided the temperature chosen or the temperature reached due to the completion of the solidification reaction does not cause (C) or (E) to substantially react.

Claim 26 (currently amended): A method according to claim 21, wherein ~~a the~~ majority of epoxy groups are ~~present as~~ glycidyl ether, glycidyl amine, glycidyl ester, and/or cycloaliphatic glycidyl groups ~~and other epoxy resins~~.

Claim 27 (currently amended): A method according to claim 21, wherein the epoxy group ~~containing compounds~~ resin or compound, individually or as ~~mixtures~~ a mixture, ~~are~~ is a free flowing ~~liquids~~ liquid at 80°C or below.

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Claim 28 (currently amended): A method according to claim 21, wherein the amine solidifying system comprises agents ~~are mainly~~ aromatic, cycloaliphatic or dicyclic primary amines, secondary amines or mixtures thereof and optionally acid accelerators.

Claim 29 (currently amended): A method according to claim 21, wherein the amine solidifying system comprises a majority of the solidifying amine groups ~~originates from at least~~ difunctional amines.

Claim 30 (currently amended): A method according to claim 21, wherein the hardener system (C) is selected from aromatic amines such as the group consisting of 4,4'-diaminodiphenyl ~~sulphone~~, boron trifluoride amine complexes, latent imidazoles, polycarboxylic acids, polyhydrazides, dicyandiamide, latent epoxy amine adducts and substituted ureas.

Claim 31 (currently amended): A method according to claim 21, wherein expanding agent (E) is an agent generating that generates gases by chemical decomposition or by boiling of liquids or expansion of gases contained within expandable shells.

Claim 32 (currently amended): A one component heat curable epoxy resin system, obtained by mixing together components (A)[[.]] and (B)[[.]] in the presence of components (C)[[.]] and (E)[[.]] wherein

(A) is an epoxy resin or compound containing more than one epoxy group;

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(B) is an amine solidifying system present in insufficient quantities to cause gelation after the amino hydrogen atoms are consumed by epoxy groups under the reaction conditions chosen for (A) and (B);

(C) is a latent hardener system for (A) and the reaction product of (A) and (B), wherein (C) is different from (B) and remains substantially unreacted under the conditions of reaction for (A) and (B); and

(E) is an expanding agent that remains substantially unreacted under the conditions of reaction for (A) and (B);

wherein the reaction product of (A) and (B) has melting point stability of at least six months at normal workshop temperatures

wherein (A) and (B) react to completion at room temperature in the presence of (C) and (E) and

wherein the reaction between (A) and (B) does not cause (C) or (E) to substantially react.

Claim 33 (previously presented): A cured product obtained by heating a system according to claim 32.

Claim 34 (canceled).

Claim 35 (new): The method according to claim 21, wherein the amine solidifying system comprises aromatic or cycloaliphatic primary or secondary amines.

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Claim 36 (new): The method according to claim 35, wherein the amine solidifying system comprises aromatic primary or secondary amines.

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